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fectious Diseases: Causation and Immunity," giving the facts that have been established in this field up to date; and "A Further Study of Involuntary Movements," by Professor Joseph Jastrow, supplementing a previous paper on this subject, will appear.

— Charles Scribner's Sons issued on Aug. 8 Stevenson's long-expected book on Samoa, entitled "A Footnote to History," being a narrative of the varied history of that island for the past eight years.

— J. B. Lippincott Company's August Bulletin of New Publications contains, among other announcements, the following: "Photography: Its History, Processes, Apparatus, and Materials. Comprising Working Details of all the more Important Methods," by A. Brothers. In the preparation of this work, the author's aim has been to produce a Handbook for the Use of Students of Photography, which should give the results of practical experience, and include — as far as possible within a moderate compass — information gathered from many sources, and not readily accessible. The newer methods have been dealt with in sufficient detail, and special attention given to the processes in use prior to the introduction of the gelatino-bromide method. Some of these processes are in danger of being neglected through the facilities which the newer methods have introduced. But, as Professor Brothers demonstrates, the new processes do not give results equal to the old, and are totally unsuitable for some purposes — such as making negatives for photo-lithography, and in various other ways. Where practicable, the plates illustrate the processes described,

thus making the work distinctly more serviceable to students. "In Starry Realms: a New Work on Astronomy," by Robert S. Ball; "Regional Anatomy in its Relation to Medicine and Surgery," by George McClellan, M.D.; "Steam Boilers: their Defects, Management, and Construction," by R. D. Monro. Of books in press, "A Short Course on Zoology Designed for High Schools and Academies," by C. De Montmahon and H. Beauregard; translated and adapted for American schools by Wm. H. Greene, M.D. "Recent Rambles, or in Touch with Nature," by Charles C. Abbott, M.D.

— Ginn & Co. have nearly ready "German Orthography and Phonology," by George Hempl, Assistant Professor of English in Michigan University. They will publish in the fall "Fourier's Series, and Spherical, Cylindrical, and Ellipsoidal Harmonics," with applications to problems in mathematical physics, by W. E. Byerly.

— *Outing* for August opens with the first instalment of Wheelman Frank G. Lenz's description of a cycling tour around the world. The rider is at present somewhere on the broad western plains, en route for the Pacific coast, and during his two-year jaunt he will traverse Japan, China, India, Persia, Turkey, Austria, Germany, Holland, France, England, Scotland, and Ireland. Mr. Lenz will communicate his experiences to *Outing* from convenient points of his journey, illustrating his articles by photographs taken by himself. The opening chapter describes the trip

#### Publications Received at Editor's Office.

- APGAR, AUSTIN C. Trees of the Northern United States. New York, American Book Co. 12°. 224 p. \$1.  
 ARKANSAS GEOL. SURVEY. Annual Report for 1890. Little Rock, Press Print. 8°. 474 p.  
 BEAN, TARLETON H. Notes on Fishes Collected in Mexico. Washington, Government. 8°. Paper. Ill.  
 BENEDICT, JAMES E. Corystoid Crabs of the Genera Telmessus and Erimacrus. Washington, Government. 8°. Paper. Ill.  
 BOLLES, T. DIX. Chinese Relics in Alaska. Washington, Government. 8°. Paper. Ill.  
 EIGENMANN, CARL H. The Fishes of San Diego. Washington, Government. 8°. Paper.  
 HOFFMAN, B. B. The Sloyd System of Wood Working. New York, American Book Co. 12°. 242 p. \$1.  
 JEFFERSON, SAMUEL. Columbus, An Epic Poem. Chicago, S. C. Griggs & Co. 12°. 239 p.  
 LINTON, EDWIN. Notes on Avian Entozoa. Washington, Government. 8°. Paper. Ill.  
 MASON, OTIS T. The Ulu, or Woman's Knife of the Eskimo. Washington, Government. 8°. Paper. Ill.  
 RATHBURN, MARY J. Catalogue of Crabs of the Family Pericercidae. Washington, Government. 8°. Paper.  
 RICKOPF, REBECCA D. A Supplementary First Reader. New York, American Book Co. 12°. 122 p. 25 cts.  
 SHUFELDT, R. W. The Evolution of House Building among the Navajo Indians. Washington, Government. 8°. Paper. Ill.  
 SHUFELDT, R. W. A Maid of Wolpai. Washington, Government. 8°. Paper.  
 SMITH, JOHN B. Revision of the Genus Cuculla, etc. Washington, Government. 8°. Paper. 86 p.  
 STYNEGER, LEONHARD. Preliminary Description of a new Genus and Species of Blind Cave Salamander. Washington, Government. 8°. Paper. Ill.  
 STYNEGER, LEONHARD. Notes on a Collection of Birds made in Japan. Washington, Government. 8°. Paper.  
 WILLIAMSON, MRS. M. BURTON. An Annotated List of the Shells of San Pedro Bay. Washington, Government. 8°. Paper. Ill.

#### Reading Matter Notices.

- Ripans Tabules: best liver tonic.  
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To exchange; Experiment Station bulletins and reports for bulletins and reports not in my file. I will send list of what I have for exchange. P. H. ROLFS, Lake City, Florida.

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For exchange.—Three copies of "American State Papers Bearing on Sunday Legislation," 1891, \$2.50, new and unused, for "The Sabbath," by Harmon Kingsbury, 1840; "The Sabbath," by A. A. Phelps, 1842; "History of the Institution of the Sabbath Day, Its Uses and Abuses," by W. L. Fisher, 1859; "Humorous Phases of the Law," by Irving Browne; or other works amounting to value of books exchanged, on the question of governmental legislation in the state, religion, personal liberty, etc. I prefer to sell "American State Papers," etc. I will sell "American State Papers," and buy other books on the subject. WILLIAM ADDISON BLAKELY, Chicago, Ill.

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separated the merchantable from the unmerchantable corn, and calculated the yield of each separately per acre. They find that the unmerchantable corn from the four plots from which the tassels were removed averages 26 per cent, while the averages from the other four rows is 21 per cent unmerchantable. The calculations also show that the average yield per acre is about one bushel less than where the corn was left undisturbed. It is probable that the tassels were not removed in this experiment early enough. To insure or even make possible beneficial results from removing tassels, the pulling should be done as soon as they appear, and before the stalk has weakened itself in an attempt to perfect the tassel. The theory upon which this experiment is based is that the strength that would otherwise go to the maturing of the tassel and production of pollen is diverted to the use of grains, and from their more complete development more corn is produced. The fodder in this experiment was not weighed, because back-water from a high river damaged it to such an extent as to make the weight unreliable.

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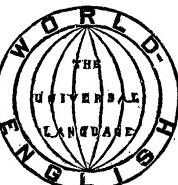
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## TO THE READERS OF SCIENCE.

### PUBLISHER'S ANNOUNCEMENT.

- Titles of Some Articles Published in *Science* since Jan. 1, 1892.
- Aboriginal North American Tea.
  - Activism.
  - Agriculture, Experimental, Status of.
  - Amenhotep, King, the tomb of.
  - Anatomy, The Teaching of, to Advanced Medical Students.
  - Anthropology, Current Notes on.
  - Architectural Exhibition in Brooklyn.
  - Arsenical Poisoning from Domestic Fabrics.
  - Artesian Wells in Iowa.
  - Astronomical Notes.
  - Bacteria, Some Uses of.
  - Botanical Laboratory, A.
  - Brain, A Few Characteristics of the Avian.
  - Bythocopidae and Cereopidae.
  - Canada, Royal Society of.
  - Celts, The Question of the.
  - Chaetoceratum, The Ancestry of.
  - Chemical Laboratory of the Case School of Applied Science.
  - Children, Growth of.
  - Collection of Objects Used in Worship.
  - Cornell, The Change at.
  - Deaf, Higher Education of the.
  - Diphtheria, Tox-Albumin.
  - Electrical Engineer, The Technical Education of.
  - Eskimo Throwing Sticks.
  - Etymology of two Iroquoian Compound Stems.
  - Eye-Habits.
  - Eyes, Relations of the Motor Muscles of, to Certain Facial Expressions.
  - Family Traits, Persistency of.
  - Fishes, The Distribution of.
  - Fossils, Notice of New Gigantic.
  - Four-fold Space, Possibility of a Realization of.
  - Gems, Artificial, Detection of.
  - Glacial Phenomena in Northeastern New York.
  - Grasses, Homoptera Injurious to.
  - Great Lakes, Origin of the Basins of.
  - "Healing, Divine."
  - Hemiptera Mouth, Structure of the.
  - Hofmann, August Wilhelm von.
  - Hypnotism among the Lower Animals.
  - Hypnotism, Traumatic.
  - Indian occupation of New York.
  - Infant's Movements.
  - Influenza, Latest Details Concerning the Germs of.
  - Insects in Popular Dread in New Mexico.
  - Inventions in Foreign Countries, How to Protect.
  - Inventors and Manufacturers, the American Association of.
  - Iowa Academy of Sciences.
  - Jargon, The Chinook.
  - Jassidæ, Notes on Local.
  - Keller, Helen.
  - Klamath Nation, Linguistics.
  - Laboratory Training, Aims of.
  - Lewis H. Carvill, Work on the Glacial Phenomena.
  - Lightning, The New Method of Protecting Buildings from.
  - Lissajou's Curves, Simple Apparatus for the Production of.
  - Maize Plant, Observations on the Growth and Chemical Composition of.
  - Maya Codices, A Key to the Mystery of.
  - Medicine, Preparation for the Study of.
  - Mineral Discoveries, Some Recent, in the State of Washington.
  - Museums, The Support of.
  - Paleoqne Tablet, A Brief Study of.
  - Patent Office Building, The.
  - Physa Heterostrophla Lay, Notes on the Fertility of.
  - Pocket Gopher, Attempted Extermination of.
  - Polariscopes, Direct Reflecting.
  - Psychological Laboratory in the University of Toronto.
  - Psychological Training, The Need of.
  - Syphula, the Pear-Tree.
  - Rain-Making.
  - Rivers, Evolution of the Loup, in Nebraska.
  - Scientific Alliance, The.
  - Sistrurus and Crotalophorus.
  - Star Photography, Notes on.
  - Star, The New, in Auriga.
  - Storage of Storm-Waters on the Great Plains.
  - Teaching of Science.
  - Tiger, A New Sabre-Toothed, from Kansas.
  - Timber Trees of West Virginia.
  - Tracheæ of Insects, Structure of.
  - Vein-Formation, Valuable Experiments in.
  - Weeds as Fertilizing Material.
  - Will, A Recent Analysis of.
  - Wind-Storms and Trees.
  - Wines, The Sophisticated French.
  - Zoology in the Public Schools of Washington, D. C.
- Some of the Contributors to *Science* Since Jan. 1, 1892.
- Aaron, Eugene M., Philadelphia, Pa.
  - Allen, Harrison, Philadelphia, Pa.
  - Baldwin, J. Mark, University of Toronto, Canada.
  - Barnes, Charles Reid, Madison, Wis.
  - Baur, G., Clark University, Worcester, Mass.
  - Beal, W. J., Agricultural College, Mich.
  - Beals, A. H., Milledgeville, Ga.
  - Beauchamp, W. M., Baldwinsville, N.Y.
  - Boas, Franz, Clark University, Worcester, Mass.
  - Bolley, H. L., Fargo, No. Dak.
  - Bostwick, Arthur E., Montclair, N.J.
  - Bradley, Milton, Springfield, Mass.
  - Brinton, D. G., Philadelphia, Pa.
  - Call, E. Ellsworth, Des Moines, Ia.
  - Chandler, H., Buffalo, N.Y.
  - Comstock, Theo. B., Tucson, Arizona.
  - Conn, H. W., Middletown, Conn.
  - Cragin, F. W., Colorado Springs, Col.
  - Davis, W. M., Harvard College, Cambridge, Mass.
  - Dimmock, George, Canobie Lake, N.H.
  - Farrington, E. H., Agricultural Station, Champaign, Ill.
  - Ferrée, Barr, New York City.
  - Flexner, Simon, Johns Hopkins University, Baltimore, Md.
  - Foshay, P. Max, Rochester, N.Y.
  - Gallaudet, E. M., Kendall Green, Washington, D.C.
  - Garman, S., Museum of Comp. Zool., Cambridge, Mass.
  - Golden, Katherine E., Agricultural College, Lafayette, Ind.
  - Hale, Edwin M., Chicago, Ill.
  - Hale, George S., Boston, Mass.
  - Hale, Horatio, Clinton, Ontario, Canada.
  - Hall, T. Proctor, Clark University, Worcester, Mass.
  - Halsted, Byron D., Rutgers College, New Brunswick, N.J.
  - Haworth, Erasmus, Oskaloosa, Iowa.
  - Hay, O. P., Irvington, Ind.
  - Haynes, Henry W., Boston Mass.
  - Hazen, H. A., Weather Bureau, Washington, D.C.
  - Hewitt, J. N. B., Bureau of Ethnology, Washington, D.C.
  - Hicks, L. E., Lincoln, Neb.
  - Hill, E. J., Chicago, Ill.
  - Hill, Geo. A., Naval Observatory, Washington, D.C.
  - Hitchcock, Romyn, Washington, D.C.
  - Holmes, E. L., Chicago, Ill.
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  - Johnson, Roger B., Miami University, Oxford, O.
  - Kellerman, Mrs. W. A., Columbus, O.
  - Kellogg, D. S., State University, Columbus, O.
  - Kellogg, D. S., Plattsburgh, N. Y.
  - Lintner, J. A., Albany, N. Y.
  - Loeb, Morris, New York City.
  - Mabery, Charles F., Cleveland, Ohio.
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  - Scripture, E. W., Clark University, Worcester, Mass.
  - Slade, D. D., Museum Comp. Zool., Cambridge, Mass.
  - Smith, John B., Rutgers College, New Brunswick, N.J.
  - Southwick, Edmund B., New York City.
  - Stevens, George T., New York City.
  - Stevenson, S. Y., Philadelphia, Pa.
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